

Annual Environmental Report

2019



Ramelton

D0341-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 AER

This Annual Environmental Report has been prepared for D0341-01, Ramelton, in Donegal in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified reports where relevant are included as an appendix to the AER.

1.1 ANNUAL STATEMENT OF MEASURES

A summary of any improvements undertaken is provided where applicable.

There was no major capital or operational changes undertaken.

1.2 TREATMENT SUMMARY

- Currently there is no treatment provided at this agglomeration. Please refer to section 4 for details of the Programme of Improvements.

1.3 ELV OVERVIEW

The overall compliance of the final effluent with the Emission Limit Values (ELVs) is shown below. More detailed information on the below ELV's can be found in Section 2.

Discharge Point Reference	Treatment Plant	Discharge Type	Compliance Status	Parameters failing if relevant
TPEFF0600D0341SW001	Ramelton Untreated Discharge	Untreated	Non-Compliant	BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l COD-Cr mg/l Suspended Solids mg/l Total Phosphorus (as P) mg/l

1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER

Assessment / Report	Included in AER
There are no Licence Specific Reports included in the AER.	

2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

2.1.1 EFFLUENT MONITORING SUMMARY -

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	6	4	4	1260.5	Fail
Suspended Solids mg/l	35	87.5	N/A	6	4	3	321.5	Fail
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	25	50	N/A	6	4	4	107.5	Fail
pH pH units	9	9	N/A	6	0	0	7.78	Pass
Total Phosphorus (as P) mg/l	2	2.4	N/A	6	1	1	2.55	Fail
Enterococci (Intestinal) cfu/100ml	N/A	N/A	N/A	2	N/A	N/A	4450	
Faecal coliforms cfu/100ml	N/A	N/A	N/A	2	N/A	N/A	156300	
Dissolved Inorganic Nitrogen (as N) mg/l	N/A	N/A	N/A	6	N/A	N/A	22.95	

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
E. Coli MPN/100ml	N/A	N/A	N/A	2	N/A	N/A	354400	
Nitrate (as N) mg/l	N/A	N/A	N/A	6	N/A	N/A	0.46	
ortho-Phosphate (as P) - unspecified mg/l	N/A	N/A	N/A	6	N/A	N/A	2.23	
Ammonia-Total (as N) mg/l	N/A	N/A	N/A	6	N/A	N/A	22.44	
Nitrite (as N) mg/l	N/A	N/A	N/A	6	N/A	N/A	0.03	
Total Nitrogen mg/l	N/A	N/A	N/A	6	N/A	N/A	29.67	
Total Oxidised Nitrogen (as N) mg/l	N/A	N/A	N/A	6	N/A	N/A	0.51	
Conductivity 20 C μS/cm	N/A	N/A	N/A	6	N/A	N/A	9566.83	

Notes:

1 – This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

Cause of Exceedance(s):

Refer to the incident section of the report.

Significance of Results:

The WWTP is non-compliant with the ELV's set in the Wastewater Discharge Licence. The impact on receiving waters is assessed further in Section 2.

2.1.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF0600D0341SW001

A summary of monitoring from ambient monitoring points associated with the wastewater discharge is provided in the sections below. For discharges to rivers upstream (U/S) and downstream (D/S) location data is provided. For other ambient points in lakes, coastal or transitional waters, monitoring data from the most appropriate monitoring station is selected.

The table below provides details of ambient monitoring locations and details of any designations as sensitive areas.

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Status
The ambient monitoring results are included in the Appendix 7.1 - Ambient monitoring summary							

Significance of Results:

The WWTP discharge was not compliant with the ELV's set in the wastewater discharge licence.

The ambient monitoring results do not meet the required EQS. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

The discharge from the wastewater treatment plant does not have an observable impact on the water quality.

A deterioration in water quality has been identified, however it is not known if it is caused by the WWTP.

Other causes of deterioration in water quality in the area are unknown.

The discharge from the wastewater treatment plant does not have an observable negative impact on the Water Framework Directive status.

3 COMPLAINTS AND INCIDENTS

3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
There were no relevant environmental complaints in 2019.			

3.2 REPORTED INCIDENTS SUMMARY

Environmental incidents that arise in an agglomeration are reported on an on-going basis in accordance with our waste water discharge licences. Where an incident occurs and it is reportable under the licence, it is reported to the Environmental Protection Agency through their Environmental Data Exchange Network, or in some instances by telephone. Some incidents which arise in the agglomeration are recorded by Irish Water but may not be reportable under our licence for example where the incident does not have an impact on environmental performance.

A summary of reported incidents is included below.

3.2.1 SUMMARY OF INCIDENTS

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
Breach of ELV	WWTP upgrade required to meet ELV	1	Yes	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2019	1
Number of Incidents reported to the EPA via EDEN in 2019	1
Explanation of any discrepancies between the two numbers above	N/A

4 INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS

4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT

A summary of the operation of the storm water overflows and their significance where known is included below:

4.1.1 SWO IDENTIFICATION

WWDL Name / Code for Storm Water Overflow	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2019 (No. of events)	Total volume discharged in 2019 (m3)	Monitoring Status
TBC	TBC	No	Unknown	Not yet Assessed	Unknown	Unknown	Not Monitored

SWO Summary	
How much sewage was discharged via SWOs in the agglomeration in the year (m ³)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	N/A
The SWO Assessment included the requirements of relevant of WWDL schedules?	N/A
Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?	No

D0341-SIP:04	Upgrading of Storm Water Overflows to comply with the criteria outlined in the DoECLG 'Procedures and Criteria in relation to Storm Water overflows, 1995'	C	31/12/2015	Yes	At Planning Stage	31/12/2023	
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A summary of the status of any improvements identified by under Condition 5.2 is included below.

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
There are no Improvement Programmes for this Agglomeration.				

4.2.3 SEWER INTEGRITY RISK ASSESSMENT

The utilisation of multiple capital maintenance programmes and the outputs of the workshops with the Local Authority Operations Staff held under the programme can be used to satisfy the requirements of Condition 5 regarding network integrity. Improvement works identified by way of these programmes and workshops will be included in the Improvements Summary Table.

5 LICENCE SPECIFIC REPORTS

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides list of the various reports required for this agglomeration and a brief summary of their recommendations.

Licence Specific Report	Required by licence	Year included in AER	Included in this AER	Reference to relevant section of AER
There is no Licence Specific Report Required in this AER Annual Review.				

6 CERTIFICATION AND SIGN OFF

6.1 SUMMARY OF AER CONTENTS

Parameter	Answer
Does the AER include an Executive Summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Is there a need to advise the EPA for consideration of a Technical Amendment / Review of the licence?	No
List reason e.g. additional SWO identified	N/A
Is there a need to request/advise the EPA of any modification to the existing WWDL with respect to condition 4 changes to monitoring location, frequency etc.	No
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	N/A
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	Yes

I certify that the information given in this Annual Environmental Report is truthful, accurate and complete:

Signed:

Date: 14/04/2020

This AER has been produced by Irish Water's Environmental Information System (EIMS) and has been electronically signed off in that system for and on behalf of,

Katherine Walshe

Acting Head of Environmental Regulation.

7 APPENDIX

Appendix

Appendix 7.1 - Ambient monitoring summary

Ramelton: Ambient Points

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	EPA Feature Coding Tool code	Receiving Waters Designation (Y/N)				WFD Status
			Bathing Water	Drinking Water	FWPM	Shellfish	
Upstream	222905, 421443	TPEFF0600D0341SW001	Yes	No	No	Yes	Moderate
Downstream	223010, 421440	TPEFF0600D0341SW001	Yes	No	No	Yes	Moderate

Entity	Category	MONTH	Location	Lab Ref	Date	Ammonia (as N)	BOD	Chlorophyll	COD	Dissolved Inorganic Nitrogen (as N)	Dissolved Oxygen % Saturation	E coli	Intestinal Enterococci	Faecal Coliforms (E. coli)	Orthophosphate	pH	Suspended Solids	Temperature	Total Nitrogen N	Salinity	Total Oxidised Nitrogen N
Lough Swilly	Transitional Water Body	April	Ramelton - Point 1	192502325	11-Apr-19	0.04	1	<4	NT	<0.02	95.7	NT	NT	NT	<0.02	7.55	NT	NT	0.6	NT	NT
Lough Swilly	Transitional Water Body	April	Ramelton - Point 2	192502326	11-Apr-19	0.02	<1	<4	NT	<0.02	95.9	NT	NT	NT	<0.02	7.56	NT	NT	0.5	NT	NT
Lough Swilly	Transitional Water Body	June	Ramelton - Point 1	192503671	06-Jun-19	0.04	2.74	5.37	NT	<0.2	102.1	NT	NT	NT	<0.02	7.42	NT	NT	0.7	NT	NT
Lough Swilly	Transitional Water Body	June	Ramelton - Point 2	192503672	06-Jun-19	0.06	2.68	19.61	NT	<0.2	101.8	NT	NT	NT	0.04	7.73	NT	NT	0.8	NT	NT
Lough Swilly	Transitional Water Body	September	Ramelton - Point 1	192505408	03-Sep-19	0.03	2.2	<4	NT	<0.3	99.2	NT	NT	NT	<0.02	8.18	NT	16.8	1	NT	NT
Lough Swilly	Transitional Water Body	September	Ramelton - Point 2	192505409	03-Sep-19	0.03	2.2	<4	NT	<0.3	99.5	NT	NT	NT	<0.02	8.2	NT	16.7	0.8	NT	NT
Lough Swilly	Transitional Water Body	November	Ramelton - Point 1	192505426	19-Nov-19	0.02	2.3	<4	NT	<0.2	96.7	NT	NT	NT	0.79	7.41	NT	NT	1	NT	NT
Lough Swilly	Transitional Water Body	November	Ramelton - Point 2	192505427	19-Nov-19	0.03	2.37	<4	NT	<0.2	96.1	NT	NT	NT	0.04	7.45	NT	NT	2.1	NT	NT